

A Longitudinal Medical Record (IMR)*

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The Intelligent Medical Record (IMR) is currently being used in patient care activities at Norwalk Hospital in Norwalk, CT, and at Cook County Hospital in Chicago, IL. IMR has evolved into a multi-encounter patient record, stored in a multi-user database management system. The graphical user interface is designed to support the physician in capturing patient data, creating progress notes, and producing a longitudinal medical record.

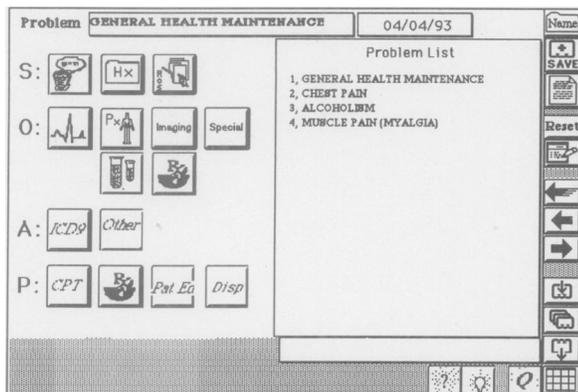


Figure 1. SOAP Screen

The physician starts with the provider and patient information and the problem list for the patient comes up automatically. The reason for the visit may already appear in the problem list or the physician may need to create a new problem. Once the current problem has been identified, the SOAP note screen (Figure 1) comes up.

The subjective information is gathered using IMR-E under control of the buttons to the right of the S in Fig. 1. The first button is the chief complaint button; the second calls up the past history, with medical, surgical, travel, social habits, and allergy sections; the third handles the review of systems. These buttons, like the others, can be used to view past information and to enter new data.

The set of buttons for objective data include the vital signs, the physical examination, imaging, special procedures, laboratory, and medications. The assessment begins with either ICD-9 codes or chief complaints.

Planning begins with treatment options, and a medication ordering facility. We also provide patient education texts, and disposition alternatives.

At any point the user can pull up the patient record. The Icon  is used to search the medical archive. This icon allows the user to query the previous encounters for the given patient. When browsing, the user can retrieve information and/or attach a note to a given encounter.

To view a complete medical entry for a given encounter, the user can click the text icon  and see the report in Figure 2.

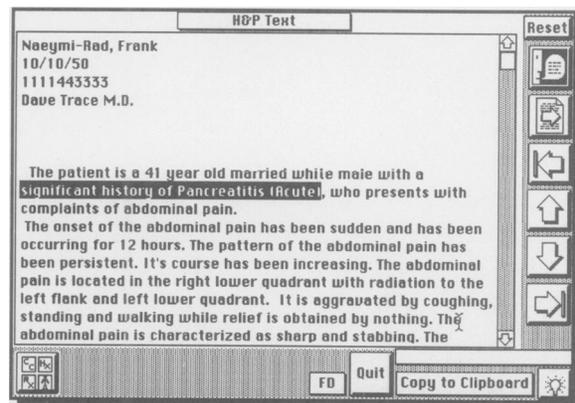


Figure 2. Report

We will demonstrate the program's major components including: the multi-encounter knowledge management system, the development of the problem list, the progress notes, query at the point of entry, and an interface to UMLS. We will demonstrate a system that runs under Apple Macintosh, Microsoft Windows and Pen for Windows.

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